

RECEIVED
CENTRAL FAX CENTER

AUG 14 2006

Application No. 10/790,338

AMENDMENTS TO THE SPECIFICATION

In the Specification

Please substitute the following amended paragraph(s) and/or section(s) (deleted matter is shown by strikethrough and added matter is shown by underlining):

Page 8, line 13

Some embodiments herein are directed to copolymers having certain Tg values or averages. Unless otherwise specified, the average Tg values are to be calculated on the basis of weight of the monomer units. An alternative method is to calculate an average by molar weight. ~~Herein, when calculating an average Tg by weight for a composition having monomeric units, this formula is used:~~

$$\text{AVERAGE Tg} = \frac{(W_1T_{g1} + W_2T_{g2} + W_3T_{g3} + \dots + W_nT_{gn})}{(W_1 + W_2 + W_3 + \dots + W_n)}$$

~~wherein W1, W2, W3, Wn, indicate the weight (e.g., in grams) of the first, second, third, and nth monomeric unit, respectively, and Tg1, Tg2, Tg3, and Tgn are the Tgs for the homopolymers of the first, second, third, and nth monomeric unit, respectively.~~ The Tg for a homopolymer varies with MW until about 20,000, so that a Tg for a homopolymer is customarily considered its Tg at or abo[[p]]ve about 20,000 MW. This procedure may be used to calculate the average Tg for a composition of monomeric units that are disposed in a copolymer.

Page 16, line 4

The Examples provide various embodiments of polymers described herein. A person of skill in these arts, after reading the Examples, will be able to adapt and apply the methods taught

Application No. 10/790,338

in the Examples to practice the various embodiments of making and using copolymers described herein. Example 1 describes preparation of copolymer with monomeric units of predetermined difference in Tg, specifically, 2-Hydroxyethyl methacrylate-co- butyl acrylate-co- butyl methacrylate. Butyl acrylate forms a homopolymer of Tg -54°C, 2-Hydroxyethyl methacrylate forms a homopolymer of Tg 57°C and butyl methacrylate forms a homopolymer of Tg 20°C; the reactive monomers were mixed at a weight ratio of 10:11:29, respectively. ~~The approximate average Tg of the monomeric units therefore = [(10)(-54) + (11)(57) + (29)(20)] / (10 + 11 + 29) = 48°C.~~ Example 2 shows an alternative embodiment using the same monomeric units at different weight ratios. Examples 3-6 present other alternative embodiments, wherein copolymers have monomeric units with certain Tg differences.